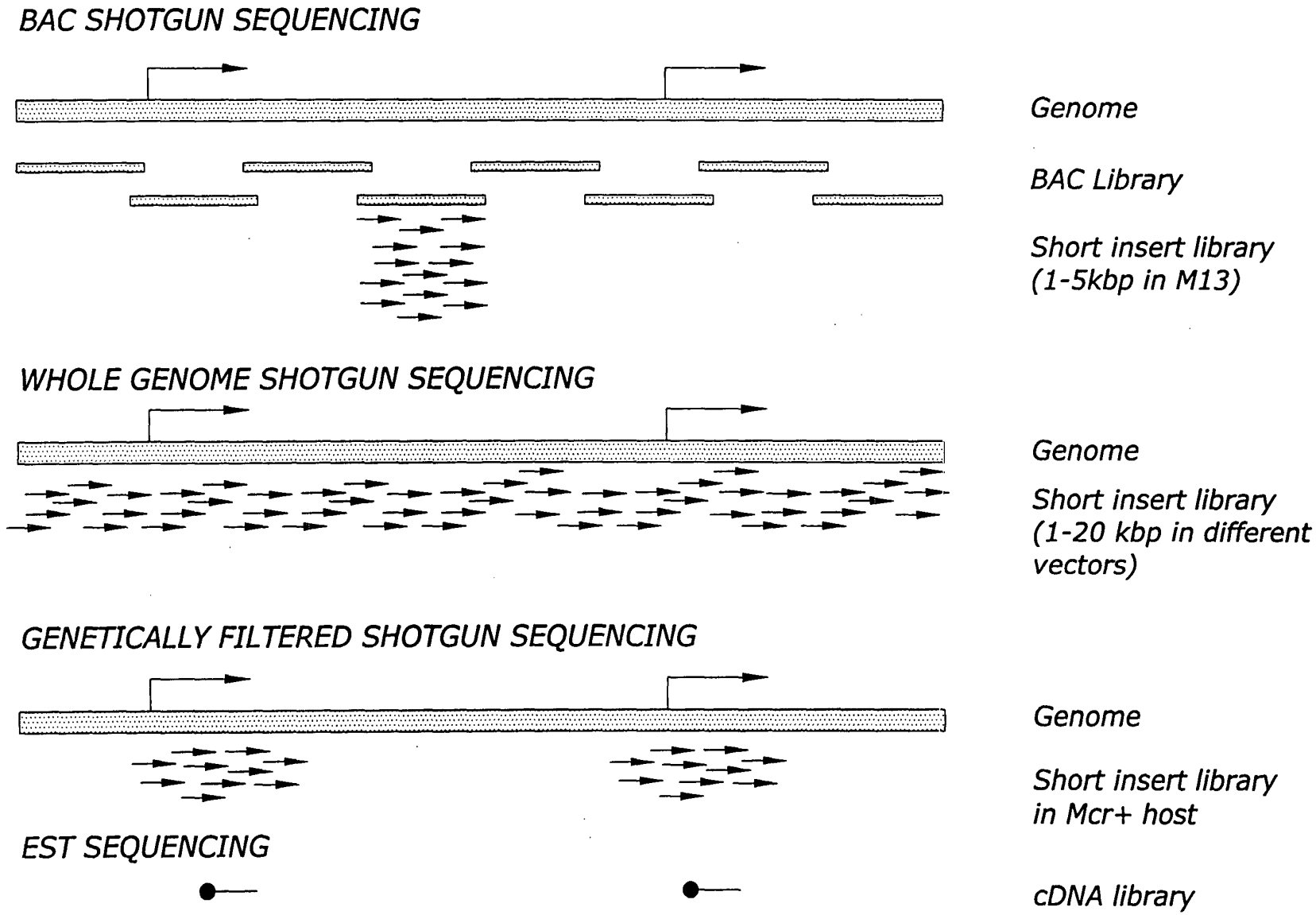
BAC SHOTGUN SEQUENCING
Genome
BAC Library
Short insert library
(1-5kbp in M13)
WHOLE GENOME SHOTGUN SEQUENCING
Genome
Short insert library
(1-20 kbp in different
vectors)
GENETICALLY FILTERED SHOTGUN SEQUENCING
Genome
Short insert library
in Mcr+ host
EST SEQUENCING
cDNA library

Fig. 1

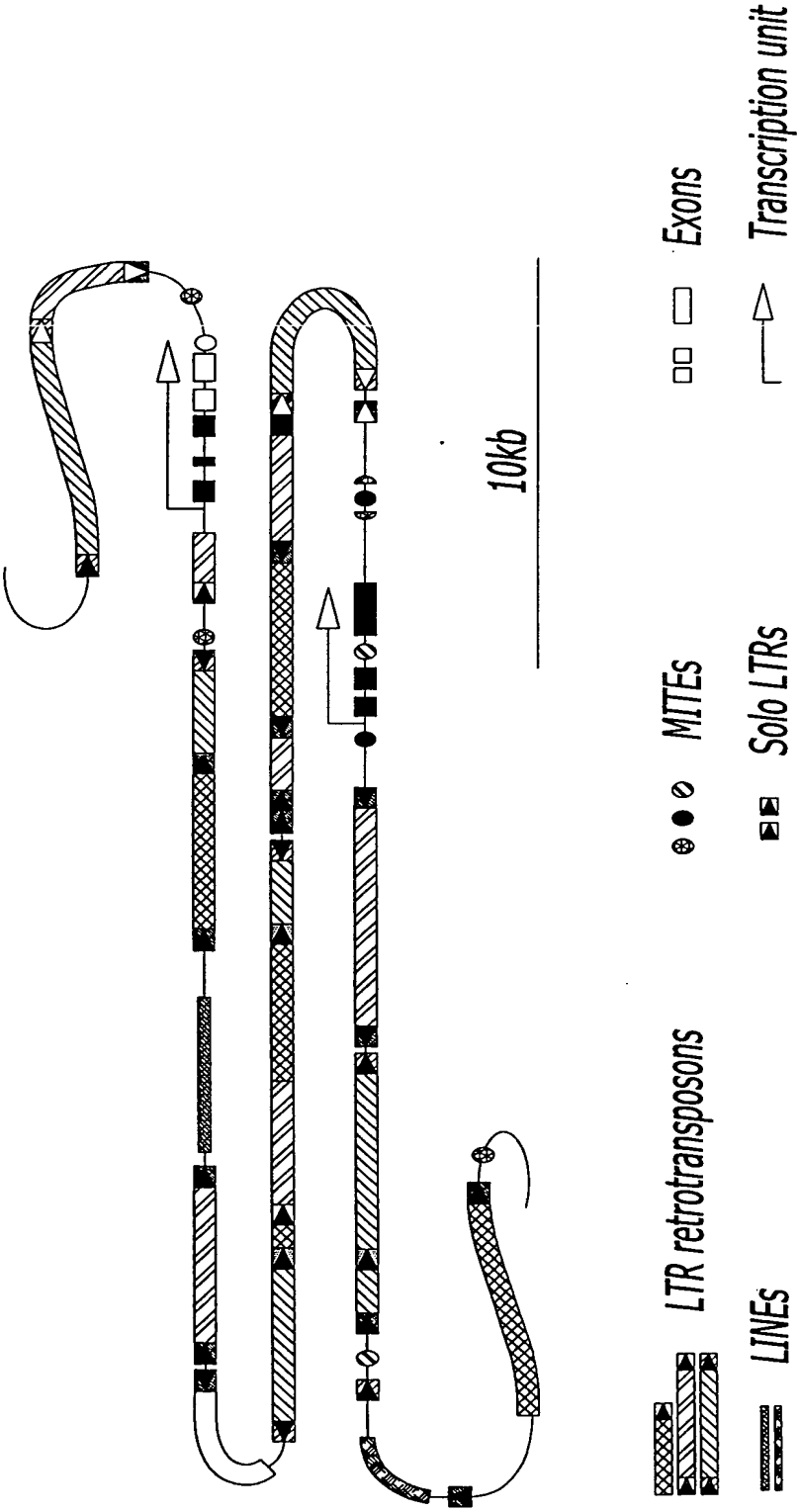
10kb
Exons
Transcription unit
MITEs
Solo LTRs
LTR retrotransposons
LINEs

Fig. 2

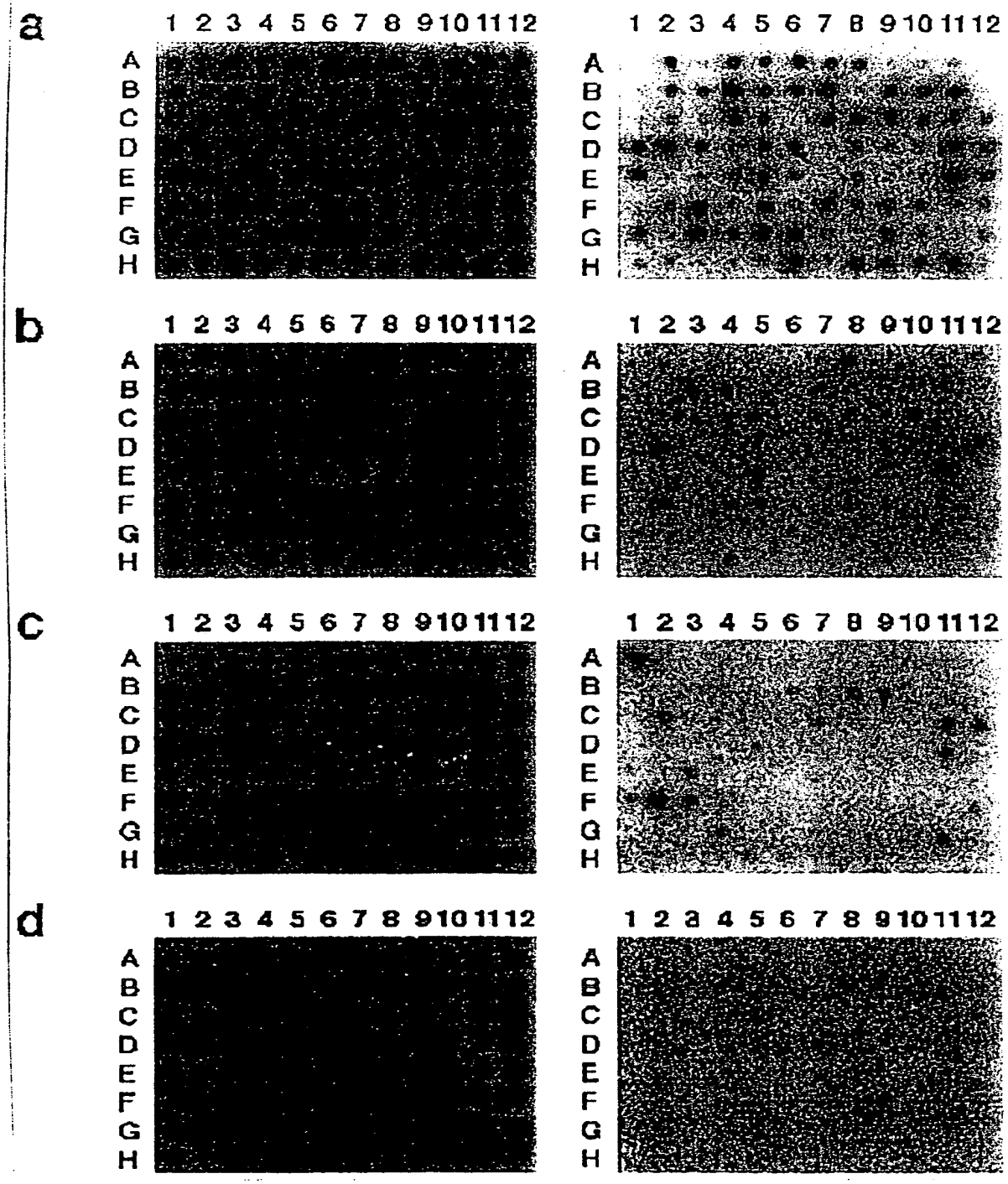

Fig. 3

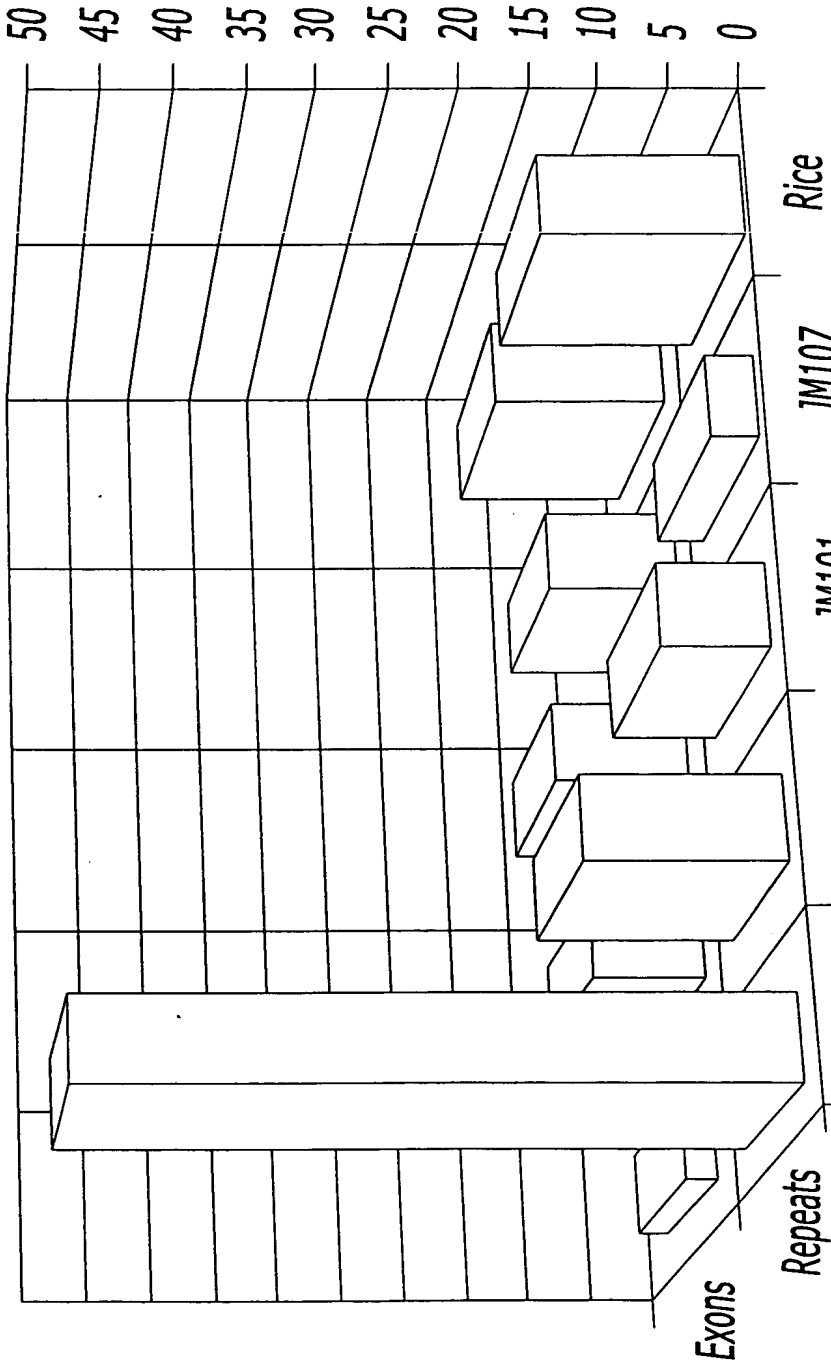
50
45
40
35
30
25
20
15
10
5
0
Rice
JM107 Maize
JM101 Maize
JM109 Maize
JM107MA2 Maize
Repeats
Exons

Fig. 4

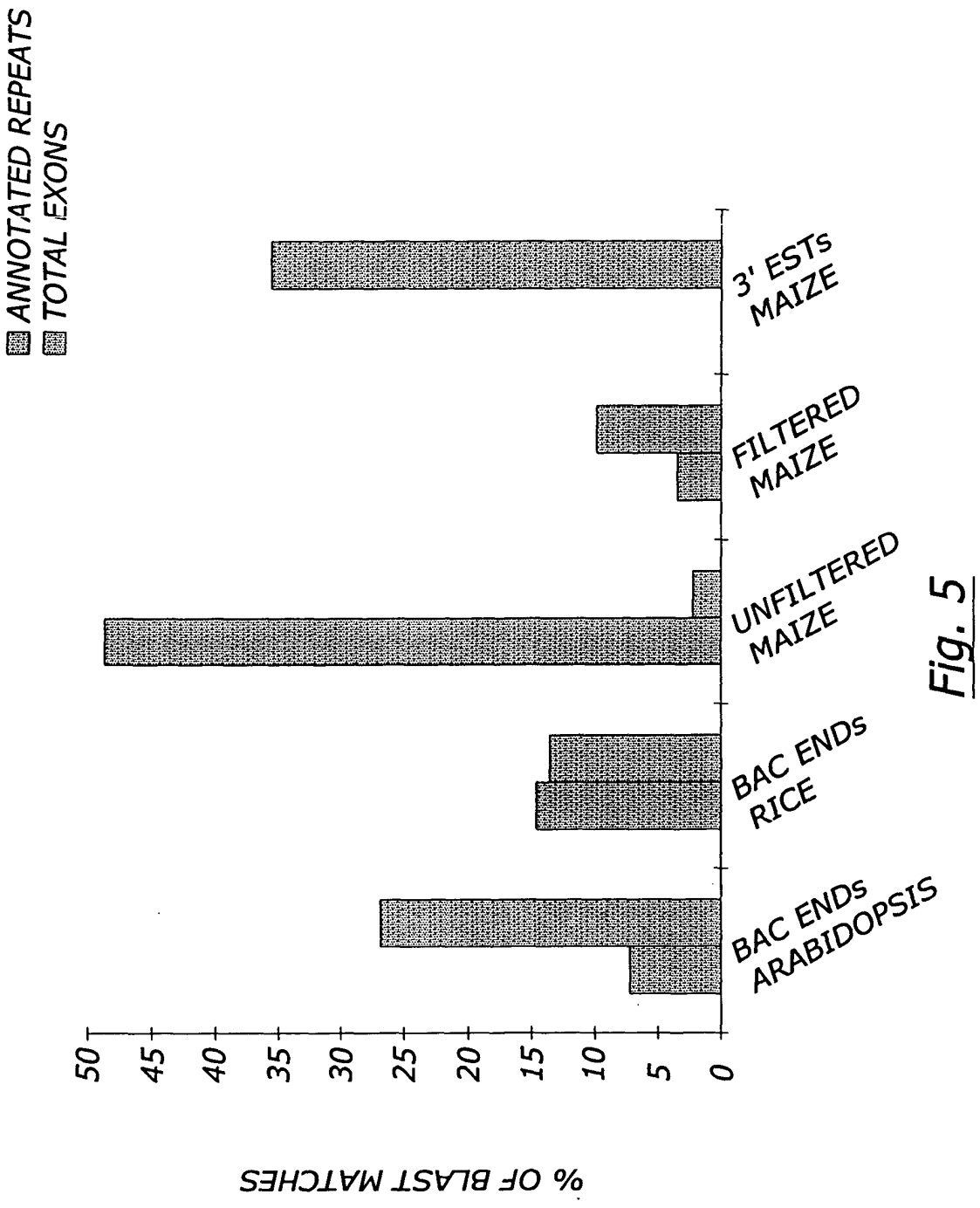
ANNOTATED REPEATS
TOTAL EXONS
3' ESTs MAIZE
FILTERED MAIZE
UNFILTERED MAIZE
BAC ENDs RICE
BAC ENDs ARABIDOPSIS
50
45
40
35
30
25
20
15
10
5
0
% OF BLAST MATCHES

Fig. 5

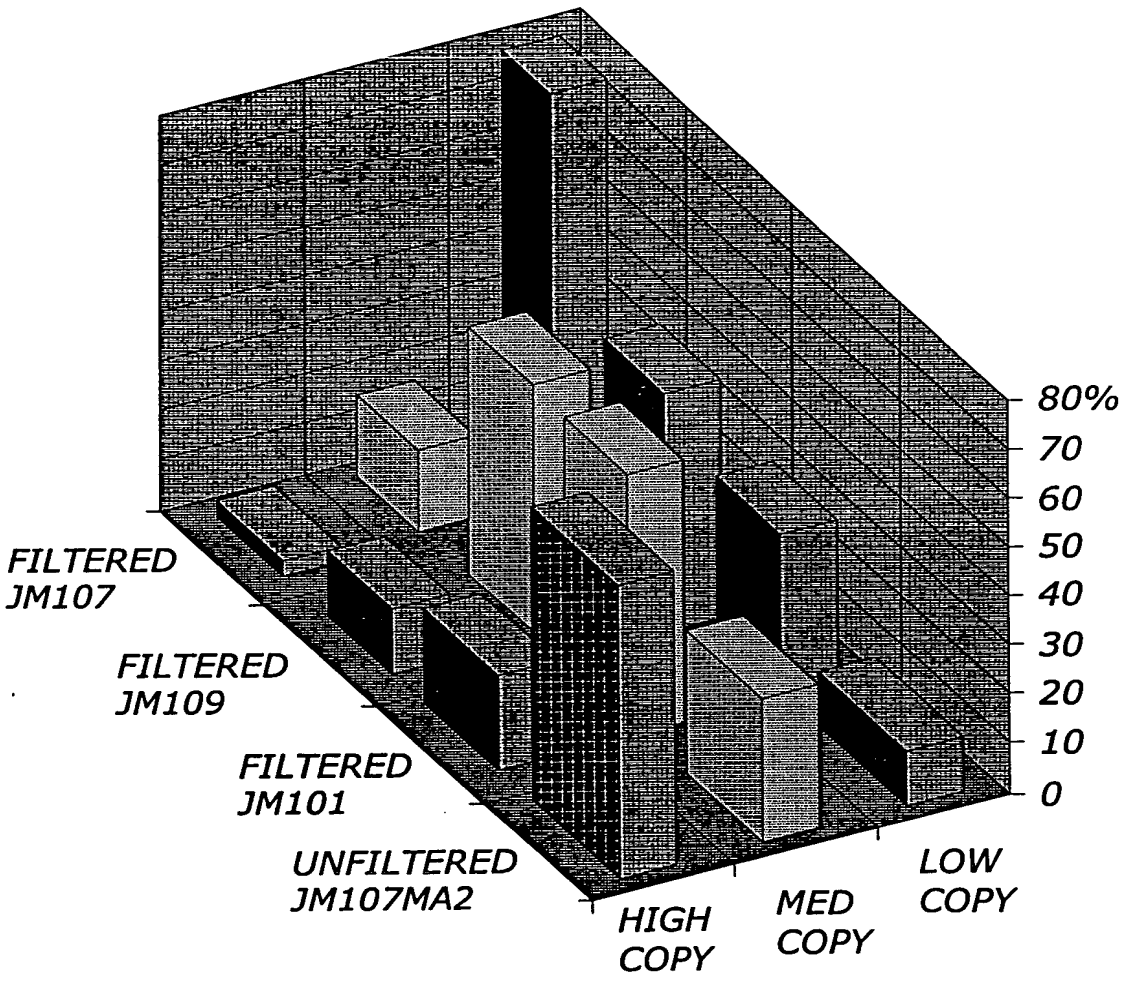
80%
70
60
50
40
30
20
10
0
FILTERED JM107
FILTERED JM109
FILTERED JM101
UNFILTERED JM107MA2
HIGH COPY
MED COPY
LOW COPY

Fig. 6

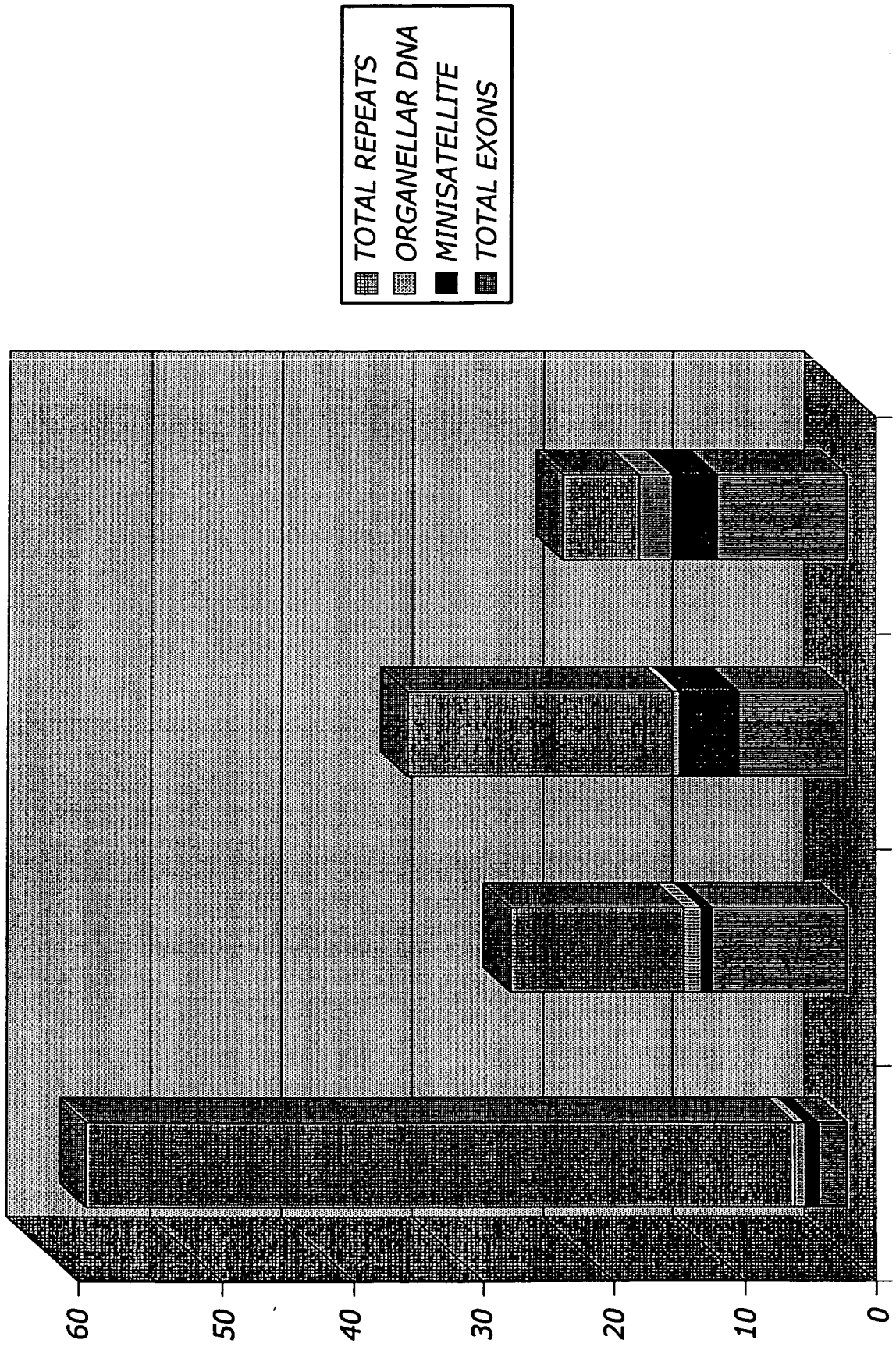
TOTAL REPEATS
ORGANELLAR DNA
MINISATELLITE
TOTAL EXONS
0
10
20
30
40
50
60
MAIZE UNFILTERED
MAIZE PARTIALLY UNFILTERED
MAIZE PARTIALLY FILTERED RECA
MAIZE FILTERED

Fig. 7

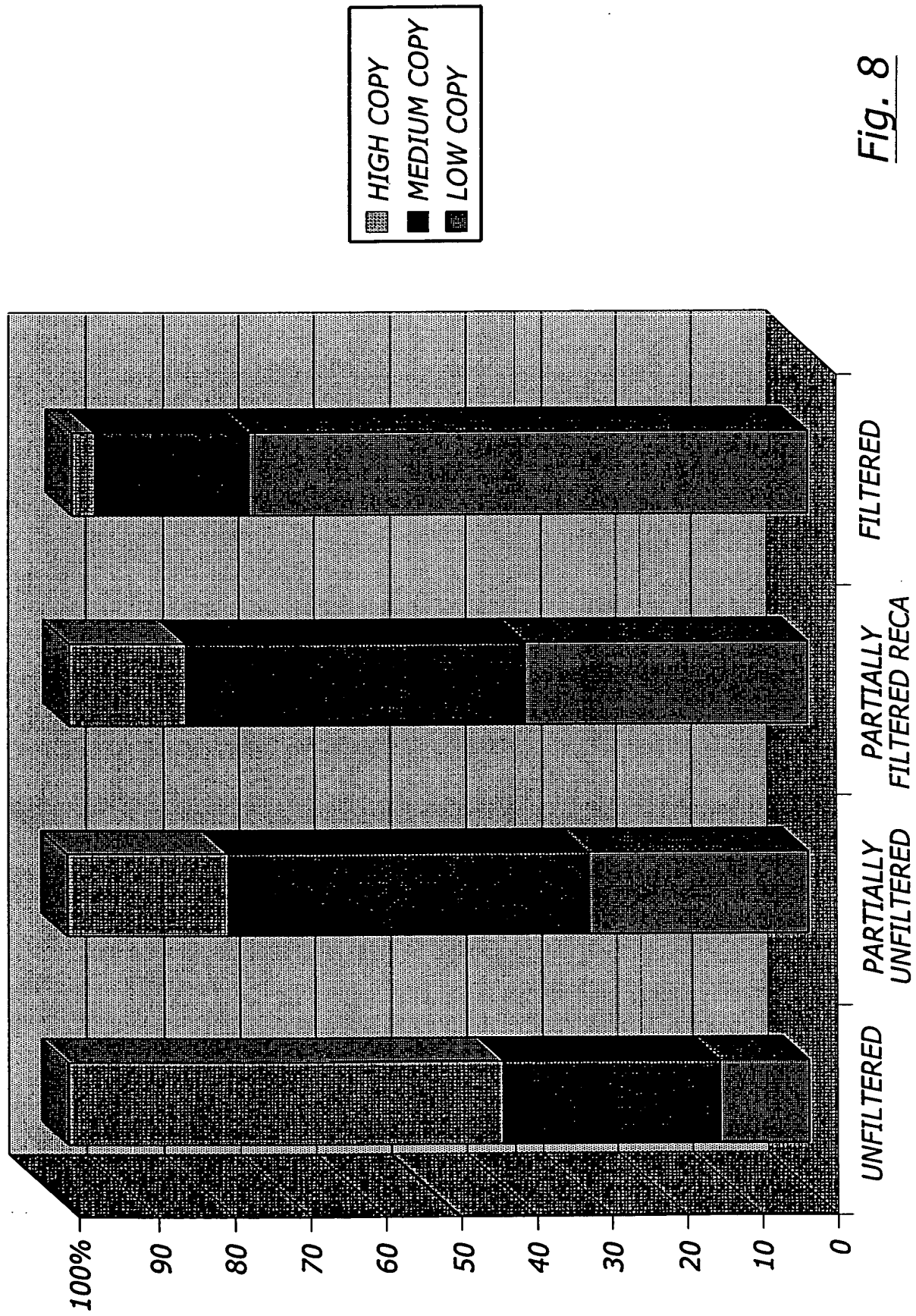
HIGH COPY
MEDIUM COPY
LOW COPY
100%
90
80
70
60
50
40
30
20
10
0
UNFILTERED
PARTIALLY UNFILTERED
PARTIALLY FILTERED RECA
FILTERED

Fig. 8

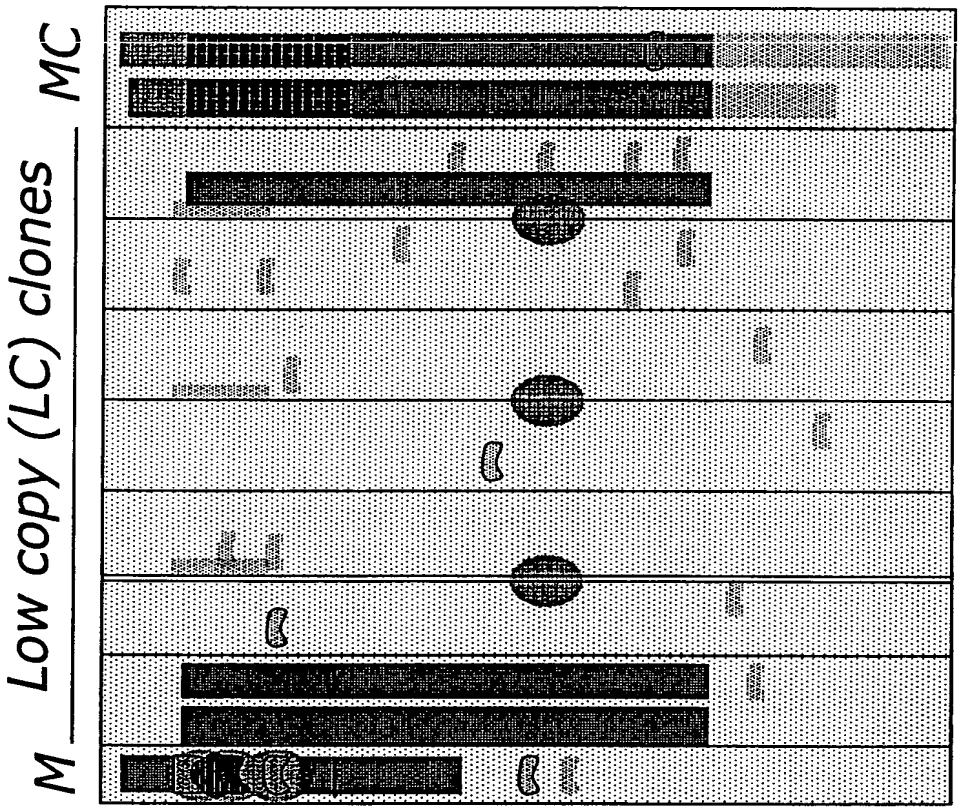

Fig. 9